

# **Certificate of Analysis**

**ISO 9001** 

#### **Reference Material**

#### **Product name**

Sulfamethoxazole N4-β-D-Glucoside

Product code
MM0227.07-0025

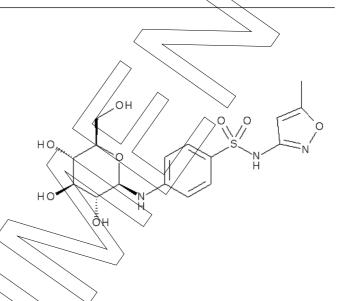
CAS number
Appearance
119691-75-7

Molecular weight

Lot number
Appearance
light yellow solid
Melting point

415.42 132 °C (dec) **Molecular formula** Long-term storage  $C_{16}H_{21}N_3O_8S$  2 to 8 °C, dark

2 to 8 °C, dark hygroscopic



Assay "as is" **96.1** %

Date of shipment: 13 Sep 2019

Producer confirms that this reference material (RM) meets the specification detailed on this Certificate of Analysis for **one year** from the date of shipment, provided the substance is stored under the recommended conditions unopened in the original container.

Release by: Date of Release:	0	
Dr. Sabine Schröder Luckenwalde, 03 Sep 2019	Soia	Product Release



#### **Product information**

For laboratory use only. Not suitable for human or animal consumption.

Before usage of the RM, it should be allowed to warm to room temperature. No drying required, as the certified value is already corrected for the content of water and other volatile materials.

The product quality is controlled by regularly performed quality control tests (retests).

## **Further content**

Identity

Assay

Final result

Revision table

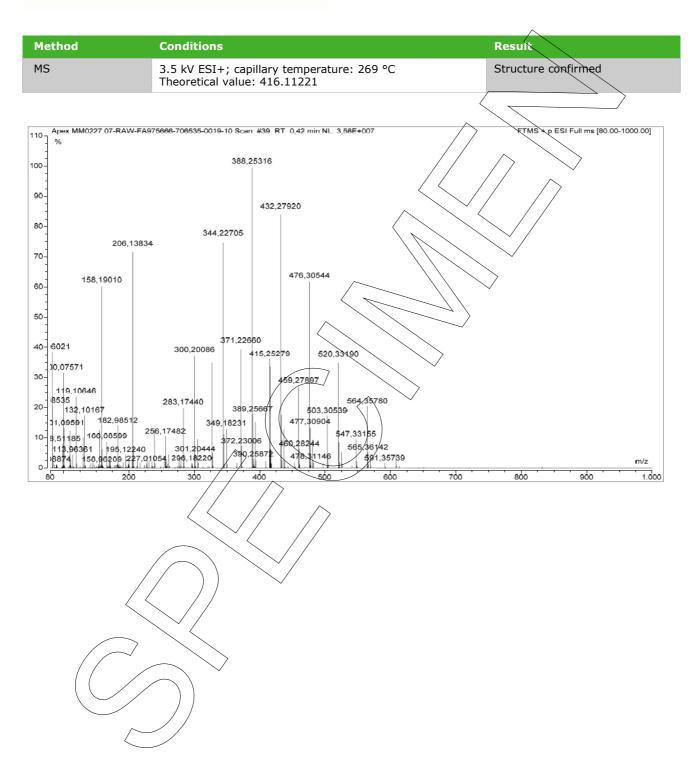


## **Identity**

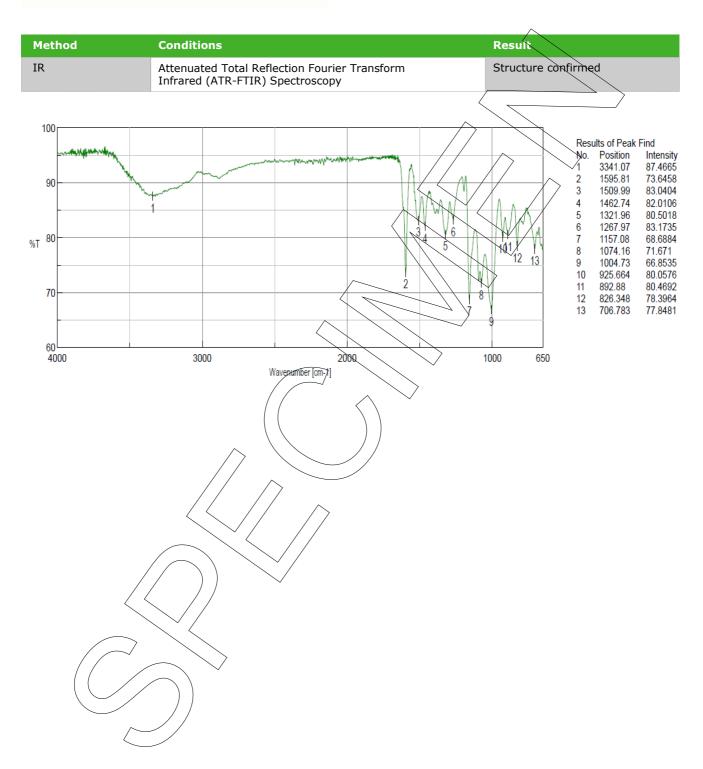
The identity of the reference material was established by following analyses.









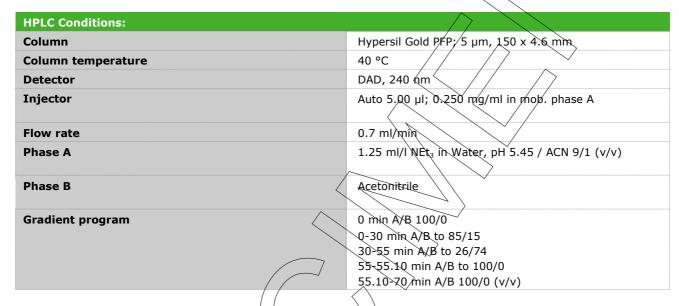




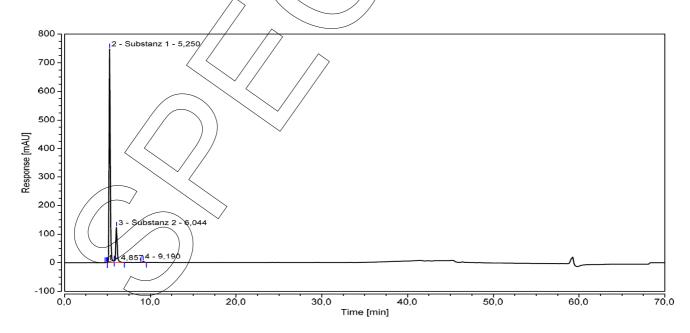
#### **Assay**

The assay of the reference material was assessed by following analyses.

#### Purity by High Performance Liquid Chromatography (HPLC)







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Area percent re	port - sorted by signal		
Pk #	Retention time	Area	Area %
1	4.857	0.013	0.01
2	5.250	113.814	83.02 substance 1
3	6.044	22.381	16.32 substance 2
4	9.190	0.891	0.65
Totals		137.099	100.00

The content of the analyte was determined as ratio of the peak area of the analyte and the cumulative areas of the purities, added up to 100 %. System peaks were ignored in calculation.

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Result (n = 3)	99.	29 %;	SD =	0.06	%
					/

#### **Volatile content**

Water content	
Method	Karl Fischer titration
Result (n = 3)	Ø.80 %; SD = 0.02-%

	_	
Residual solvents		
Method		1H-NMR
Result (n = 1)		Sum: 2.38 %
	) ;	2.38 % Methanol



#### **Final result**

Assay "as is":

96.13 %

The assay "as is" is assessed by 100% method (mass balance) and is equivalent to the assay based on the not anhydrous and not dried substance respectively.

The calculation of the 100% method follows the formula:

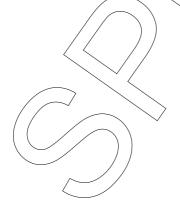
Assay (%) = (100 % - volatile contents (%)) \* 
$$\frac{\text{Purity (\%)}}{100 \%}$$

Volatile contents are considered as absolute contributions and purity is considered as relative contribution. Inorganic residues are excluded by additional tests.

### **Revision table**

Revision	Date	Reason	for revision			
00	03 Sep 2019	Release	of the Certifical	te of A	Analysis - initial version	

Product warranties for the RM are set out in the terms and conditions of purchase.



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